Defense Information Systems Agency

A Combat Support Agency

Defense Spectrum Organization

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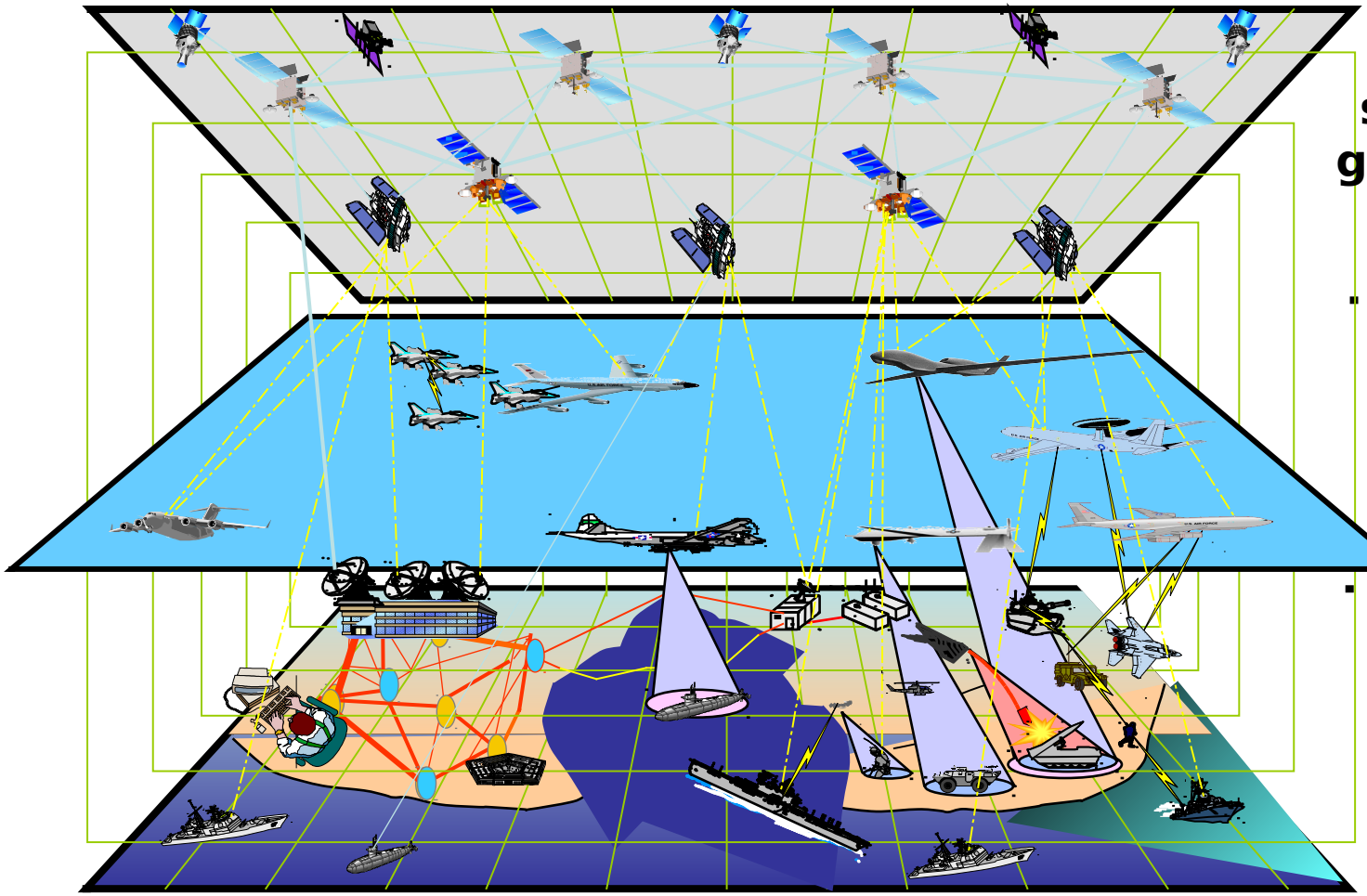
Director

7 August 2009

Defense Spectrum Environment



Integrated space, air and ground systems

Integrated decision-making

Operational superiority

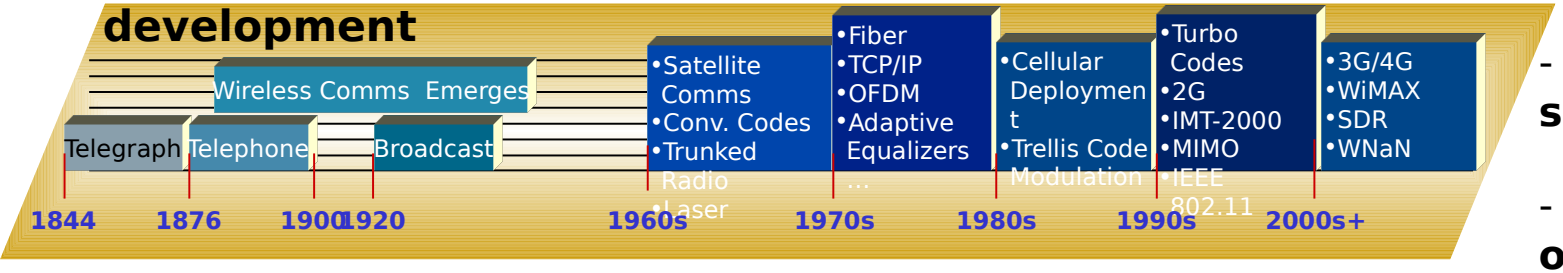
Spectrum enables net-centric operations and warfare

DoD Spectrum Challenges

OPERATIONAL: Net-centric joint operations

- **Net-Centric Warfare**
- **Higher bandwidths**
- **Greater mobility**
- **Greater agility**
- **Higher tempo**

TECHNICAL: Five decades of rapid wireless technology development

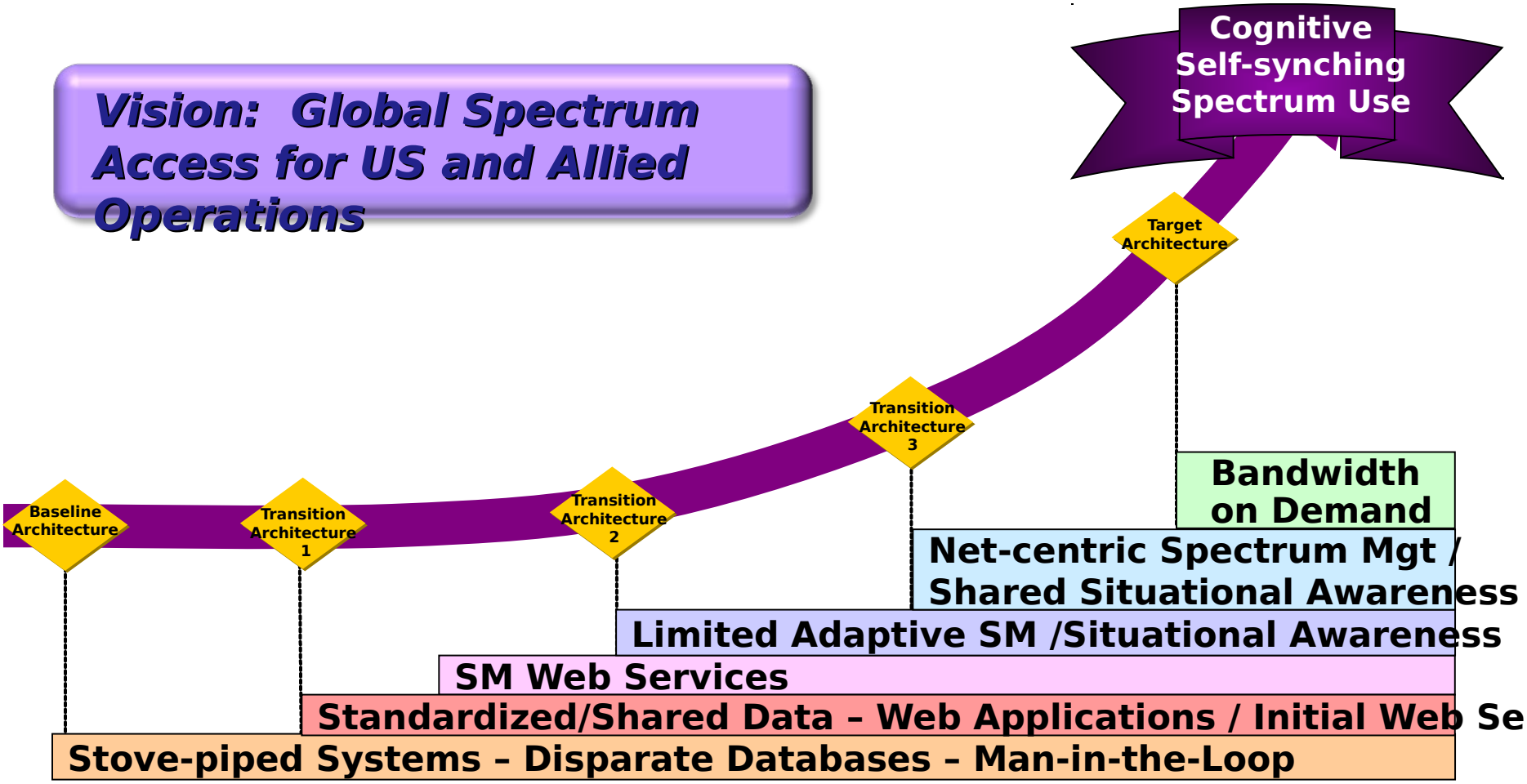


- **Growing spectrum requirements**
- **Encroachment on military bands**

REGULATORY: Increased need for more spectrum, harmonization, etc.

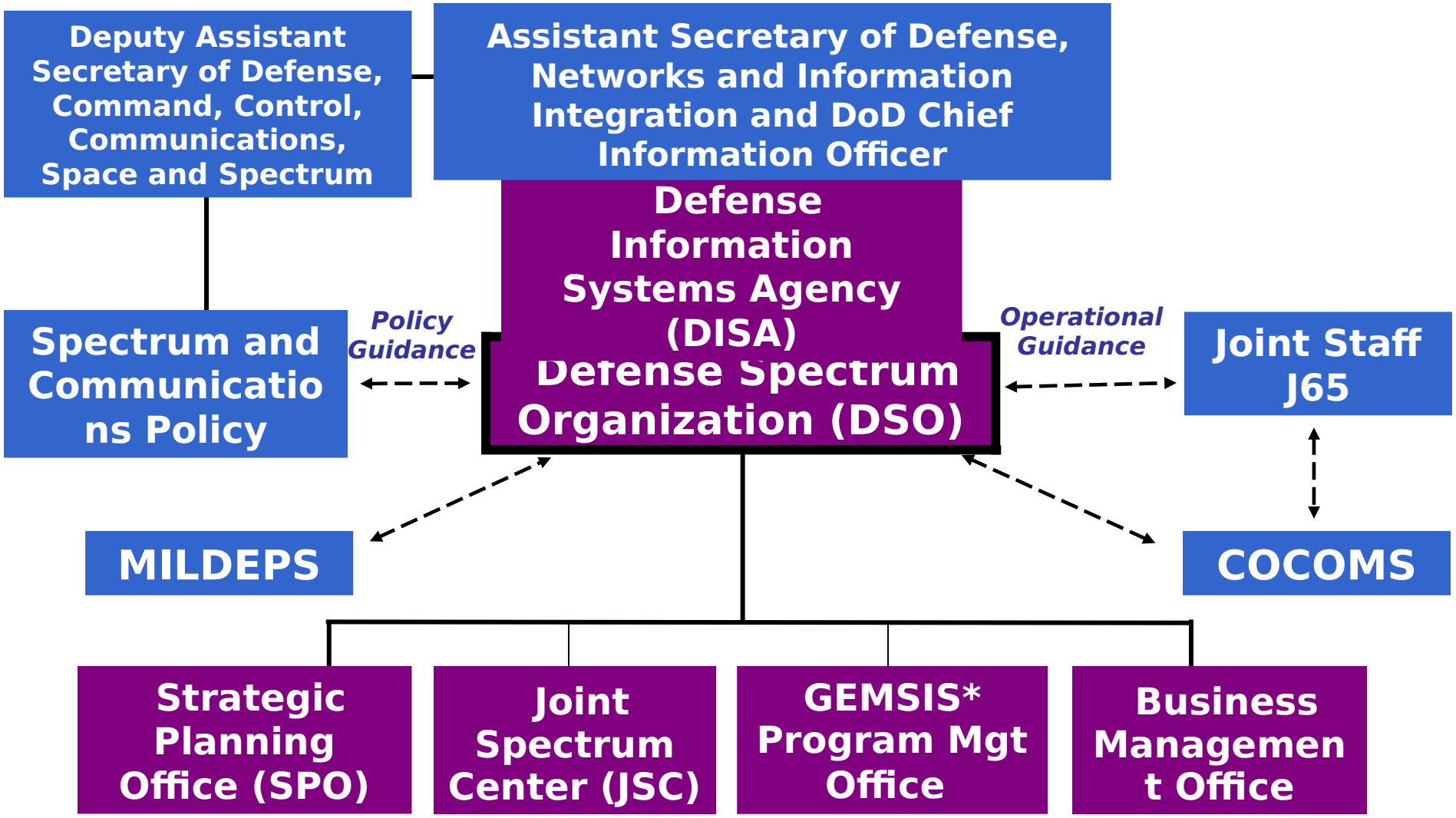
- **Demands for sharing and harmonization**
- **Host nation sovereignty**
- **World Radiocommunication**

Spectrum Management Transformation*


Vision: Global Spectrum Access for US and Allied Operations
Cognitive Self-synching Spectrum Use
Target Architecture
Transition Architecture 3
Transition Architecture 2
Transition Architecture 1
Baseline Architecture
Bandwidth on Demand
Net-centric Spectrum Mgt / Shared Situational Awareness
Limited Adaptive SM /Situational Awareness
SM Web Services
Standardized/Shared Data – Web Applications / Initial Web Se
Stove-piped Systems – Disparate Databases – Man-in-the-Loop

*Defense Spectrum Management Architecture

Organization Chart


Deputy Assistant Secretary of Defense, Command, Control, Communications, Space and Spectrum
Assistant Secretary of Defense, Networks and Information Integration and DoD Chief Information Officer
Defense Information Systems Agency (DISA)
Defense Spectrum Organization (DSO)
Spectrum and Communications Policy
Policy Guidance
Operational Guidance
Joint Staff J65
MILDEPS
COCOMS
Strategic Planning Office (SPO)
Joint Spectrum Center (JSC)
GEMSIS* Program Mgt Office
Business Management Office

* GLOBAL ELECTROMAGNETIC SPECTRUM INFORMATION SYSTEM

On the Horizon for DSO

Contract/Task/Area of Support	Anticipated Start Date
FY10/FY11	
Strategic Planning Office Electromagnetic Spectrum Engineering Services Follow-on	Sept 2010
Global Electromagnetic Spectrum Information System (GEMSIS) Increment 1 Sustainment	Oct 2010
Broad Area Announcement(s) for Emerging Spectrum Technologies (EST)	Varies in FY2010
Global Electromagnetic Spectrum Information System (GEMSIS) Program Office Technical Support	FY2011
Global Electromagnetic Spectrum Information System (GEMSIS) Increment 2 Architecture/Integration	FY2012

DEFENSE INFORMATION SYSTEMS AGENCY